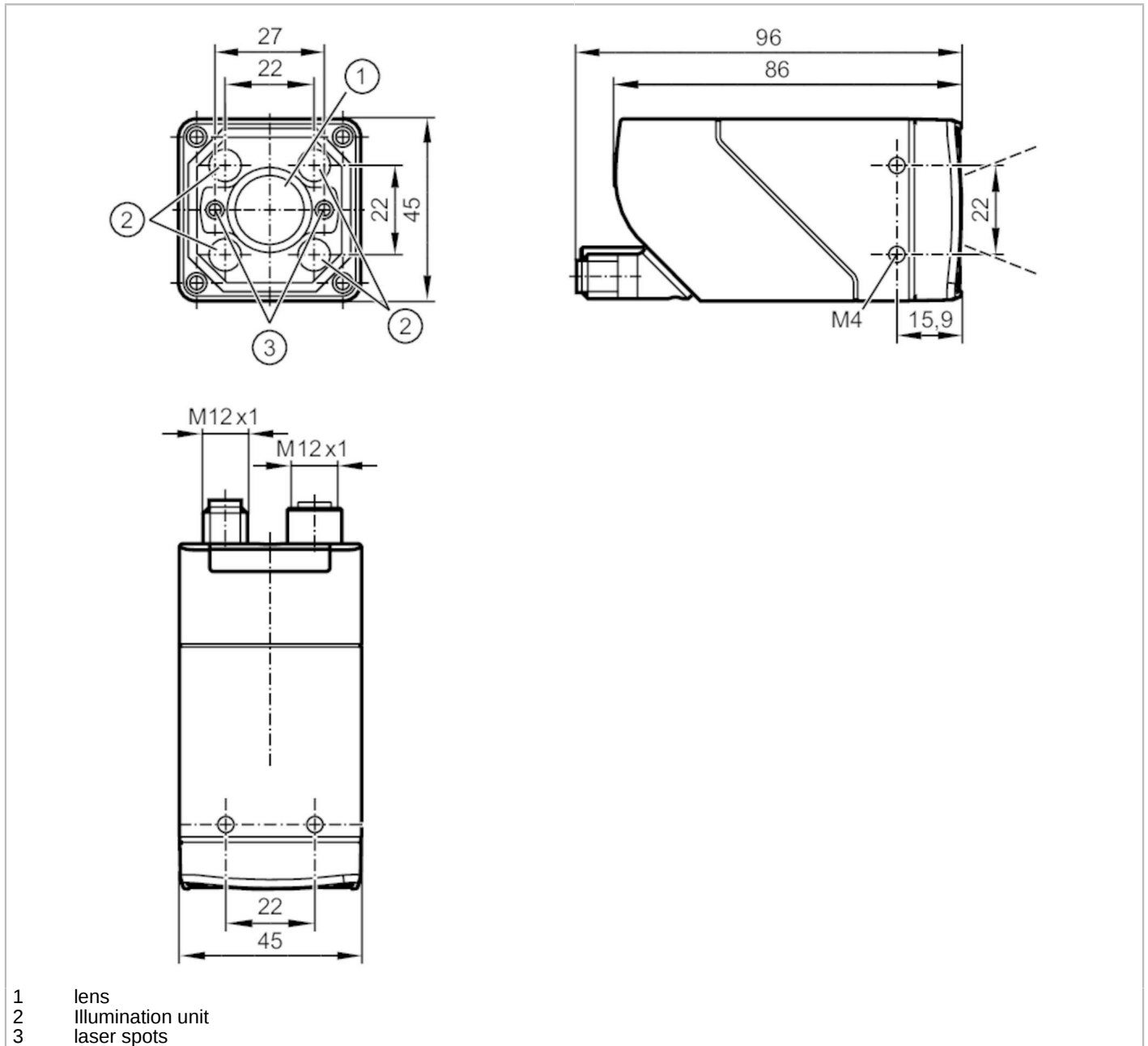


# O2I503



## 1D / 2D code readers

O2IIRDKG/E1/E2/EF/VF/TB/W



- 1 lens
- 2 illumination unit
- 3 laser spots



### Product characteristics

Type of light	Infrared light
Image resolution [px]	1280 x 960
Max. reading rate [Hz]	40

### Electrical data

Operating voltage [V]	18...30 DC
Current consumption [mA]	< 400; (24V DC)
Protection class	III
Reverse polarity protection	yes
Type of light	Infrared light

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Wave length	[nm]	850		
Image sensor		CMOS image sensor black/white		
<b>Inputs / outputs</b>				
Number of inputs and outputs		Number of digital inputs: 1; Number of digital outputs: 2		
<b>Inputs</b>				
Trigger		external; 24 V PNP/NPN (IEC 61131-2 Typ 3); TCP/IP; EtherNet/IP; internal		
Number of digital inputs		1		
<b>Outputs</b>				
Total number of outputs		2		
Number of digital outputs		2; (configurable)		
Output function		24 V PNP/NPN		
Max. voltage drop switching output DC	[V]	1		
Max. current load per output	[mA]	100		
Short-circuit protection		yes		
Type of short-circuit protection		yes (non-latching)		
Overload protection		yes		
<b>Monitoring range</b>				
Field of view size	[mm]	Operating distance	Field of view	
		35	25 x 19	
		300	184 x 138	
		500	304 x 228	
		1000	604 x 453	
Operating distance	[mm]	> 35		
Image resolution	[px]	1280 x 960		
Lens type		Wide angle		
Readable codes		Interleaved 2-of-5; Industrial 2-of-5; Code 39; Code 93; Code 128; Pharmacode; Codabar; EAN8; EAN8 Add-On 2; EAN8 Add-On 5; EAN13; EAN13 Add-On 2; EAN13 Add-On 5; UPC-A; UPC-A Add-On 2; UPC-A Add-On 5; UPC-E; UPC-E Add-On 2; UPC-E Add-On 5; GS1 DataBar Omnidirectional; GS1 DataBar Truncated; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Expanded Stacked; GS1 - 128; MSI Barcode; ECC200; PDF-417; QR; Micro-QR; Aztec Code; GS1 ECC200; GS1 QR Code; GS1 Aztec Code		
Code quality based on				ISO / IEC 15415
				ISO / IEC 15416
				AIM DPM
				ISO/IEC TR 29158
				SEMI T10
Legible fonts		Industrial; Document; OCR-A; OCR-B; Pharma; Semi; Universal; Dot Print		
Omnidirectional reading		yes		
Max. inclination to the image plane	[°]	45		
Max. reading rate	[Hz]	40		
<b>Software / programming</b>				
Parameter setting options		teach button; via PC with ifm Vision Assistant		



## 1D / 2D code readers

O2IIRDKG/E1/E2/EF/VF/TB/W

Interfaces		
Communication interface	Ethernet	
Ethernet		
Number of Ethernet interfaces	1	
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10 MBit/s; 100 MBit/s	
Protocol	TCP/IP; EtherNet/IP	
Factory settings	IP address: 192.168.0.69 subnet mask: 255.255.255.0 (Class C) gateway IP address: 192.168.0.201 MAC address: see type label	
Usage type	Parameter setting; Data transmission	
Operating conditions		
Ambient temperature	[°C]	-10...50
Storage temperature	[°C]	-40...70
Protection		IP 65
Tests / approvals		
EMC	EN 61000-6-4 radiation of interference	industrial environments
	EN IEC 61000-6-2 noise immunity	industrial environments
Shock resistance	EN 60068-2-27	50 g 11 ms / not repetitive
	EN 60068-2-27	40 g 6 ms / repetitive
Vibration resistance	EN 60068-2-6	2 g (10 ... 150 Hz)
Laser protection class		1
Notes on laser protection	Caution:	Laser light
	laser class:	1
		EN / IEC60825-1:2007
		EN / IEC60825-1:2014
	Complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007.	
Photobiological safety	exempt group; (EN 62471)	
Electrical safety	EN 61010-2-201	electrical supply only via PELV circuits
MTTF	[years]	62
Mechanical data		
Weight	[g]	600.5
Dimensions	[mm]	45 x 45 x 86
Material	housing: diecast zinc powder-coated; front lens: Gorillaglas; LED window: PC; pushbuttons: POM	
Sealing material	FKM	
Displays / operating elements		
Display	Function	2 x LED, green
	Function	2 x LED, yellow
	Teach-Funktion	1 x LED, green
	Teach-Funktion	1 x LED, yellow
Operating elements	1 x	Teach-Taste

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## 1D / 2D code readers

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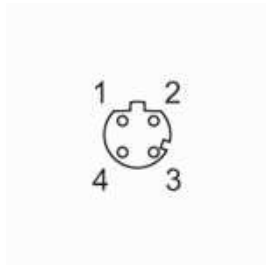
Accessories	
Accessories (optional)	Operating software
	Mounting accessories
	Adapter cable
	protective and filter windows

Remarks	
Pack quantity	1 pcs.

### Electrical connection

#### Electrical connection - Ethernet

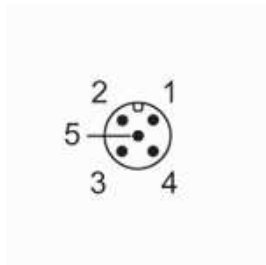
Connector: 1 x M12; coding: D; Moulded body: stainless steel; sealing: FKM



1	TxD+
2	RxD+
3	TxD-
4	RxD-

#### Electrical connection - supply

Connector: 1 x M12; coding: A; Moulded body: stainless steel



1	U+
2	trigger input
3	0 V
4	Switching output 1 configurable
5	Switching output 2 configurable / trigger output with external illumination